CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017
Specific Gravity	2.57
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	100	100	100	100	100	II	Satisfies the requirement
	4.75	98.4	90-100	90-100	90-100	95-100		
	2.36	86.5	60-95	75-100	85-100	95-100		
	1.18	75.4	30-70	55-90	75-100	90-100		
	0.6	48.8	15-34	35-59	60-79	80-100		
	0.3	25.5	5-20	8-30	12-40	15-50		
	0.15	8.6	0-10	0-10	0-10	0-15		

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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AE-03

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03)
Name of Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017
Specific Gravity	**2.68**
Water Absorption	**0.29%**
Technical Reference	IS 2386(Part I)-1963 (Reaffirmed 2011), IS 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.5**	95-100	
20	**54.6**	30-70	
10	**25.3**	10-35	
4.75	**3.8**	0-5	

Note:

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AE-02

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03)
Name of Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017
Specific Gravity	2.63
Water Absorption	0.33%
Technical Reference	IS 2386(Part I)-1963 (Reaffirmed 2011), IS 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.8	95-100	
10	45.6	25-55	
4.75	8.4	0-10	

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AE-03

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017
Grade and Brand of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.3	12	Satisfactory
5	Yield Stress(N/Sq mm)	509	500	Satisfactory
6	U T S (N/Sq mm)	565	545	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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AE-B

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03)
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017
Grade and Brand of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	504	500	Satisfactory
6	U T S (N/Sq.mm)	560	545	Satisfactory

Note:

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(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

17th August 2017

Dear Sir,

Sub: Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE W 3

AE 03

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1	20/07/2017	17/08/2017	28	8.16	475	**21.11**	**21.48**
2					8.18	485	**21.56**	
3					8.19	490	**21.78**	

Note:

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(KHUSHBOO L.)
Qulaity Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	20/07/2017	17/08/2017	28	8.19	480	**21.33**	**21.78**
2					8.20	490	**21.78**	
3					8.22	500	**22.22**	

Note:
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AE03

(KHUSHBOO L.)
Qulaity Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

16th September 2017

Dear Sir,

Sub: Testing of Bituminous Concrete.

As requested, tests on physical properties were carried out for the Bituminous Concrete supplied by you, for the work of **'Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE W3

Manju AE-08

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Sample	Bituminous Concrete
Date of Testing	16/09/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements as per MORTH (4th Revision) Table 500-17 for BC
1	19.5	19.9	Maximum allowed 'AIV' is 24%
2	20.3		

Remarks	Satisfies the requirement

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AE-03

Khushboo

(KHUSHBOO L.)
Quality Manager

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